

Listing of Claims to Replace All Prior Versions of Claims in the Application

1. (original) A method of generating an XML document comprising:
preparing only a portion of an XML document;
sending said portion to a client; and
repeating said preparing and said sending until an entire XML document is
sent to a client.

2. (original) The method of claim 1, wherein said preparing comprises:
gathering data that is to appear in the XML document;
calling an emitter object;
passing the emitter object gathered data; and
formatting the gathered data into an appropriate XML syntax with the
emitter object.

3. (original) The method of claim 2, wherein said gathering comprises
using a data gathering object to gather said data.

4. (original) The method of claim 1 further comprising prior to said
preparing, receiving a request for the XML document from the client.

5. (original) A method of responding to an Extensible Markup
Language (XML) request comprising:
receiving a request from a client for an XML document;
preparing only a portion of a response to the request; and
sending the response portion to the client.

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2 6. (original) The method of claim 5 further comprising repeating said
3 preparing and said sending until an entire response has been sent to the client.
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5 7. (original) The method of claim 5 further comprising repeating said
6 preparing and said sending until an entire response has been sent to the client, said
7 preparing of response portions taking place in a defined order.
8

9 8. (original) The method of claim 5 further comprising repeating said
10 preparing and said sending until an entire response has been sent to the client, said
11 preparing of response portions taking place in a defined order, wherein the
12 response comprises an XML multistatus response.
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14 9. (original) The method of claim 5, wherein the response comprises an
15 XML multistatus response.
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17 10. (original) The method of claim 5, wherein said preparing comprises:
18 gathering data for said response portion with a data-gathering mechanism;
19 and

20 formatting gathered data into an appropriate XML syntax with a data-
21 formatting mechanism.
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23 11. (original) The method of claim 10, wherein said sending comprises
24 sending the response portion to the client with a response-sending mechanism.
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1 12. (original) The method of claim 11, wherein said response-sending
2 mechanism includes a buffer for holding at least one response portion that is
3 prepared by the data-formatting mechanism and further comprising:

4 defining a buffer threshold;

5 buffering said at least one response portion in the buffer; and

6 sending said at least one response portion to the client when the buffer
7 threshold is reached.

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9 13. (original) A computer-readable medium having a program which,
10 when executed by a computer, performs the method of claim 5.

11
12 14. (previously presented) A method of responding to an Extensible
13 Markup Language (XML) request comprising:

14 receiving a request from a client for an XML document;

15 gathering data that is to appear in a response to the client's request;

16 calling an emitter object and passing the emitter object the gathered data;

17 formatting the gathered data into an appropriate XML syntax with the
18 emitter object; and

19 emitting formatted data from the emitter object, the emitter object emitting
20 the formatted data in a manner in which an XML response can be sent to the client
21 without having to build a hierarchical tree that represents the XML response.

22
23 15. (original) The method of claim 14 further comprising:

24 accumulating the emitted formatted data in a buffer; and
25

1 sending buffered data to the client when the buffer contains a defined
2 amount of data that is less than an amount that would constitute a complete
3 response to the client's request.

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5 16. (original) The method of claim 14, wherein:
6 said calling comprises calling the emitter object multiple times; and
7 said emitting comprises emitting multiple amounts of formatted data.

8
9 17. (original) The method of claim 14, wherein:
10 said calling comprises calling the emitter object multiple times and in a
11 defined order; and
12 said emitting comprises emitting multiple amounts of formatted data.

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14 18. (original) The method of claim 14, wherein said gathering comprises
15 gathering data that is to appear in a multistatus response.

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17 19. (original) A computer-readable medium having a program which,
18 when executed by a computer, performs the method of claim 14.

19
20 20. (original) A method of responding to an Extensible Markup
21 Language (XML) request comprising:

22 receiving an XML request from a client, the XML request containing a
23 Web Distributed Authoring and Versioning (WebDAV) request method;
24 determining the WebDAV request method that is contained in the client's
25 request;

1 creating a request method object for the WebDAV request method;
2 gathering data that is to appear in a response to the client's request with the
3 request method object;
4 calling an emitter object and passing the emitter object data that was
5 gathered by the request method object; and
6 generating at least a portion of a syntactically correct XML response with
7 the emitter object using the data that was gathered by the request method object.
8

9 21. (original) The method of claim 20 further comprising sending the
10 response portion to the client.
11

12 22. (original) The method of claim 21, wherein the sending of the
13 response portion comprises doing so without building an entire hierarchical tree
14 structure that represents an entire response for the client's request.
15

16 23. (original) The method of claim 20, wherein said calling comprises
17 calling the emitter object a plurality of times for a given response.
18

19 24. (original) The method of claim 20, wherein said generating
20 comprises generating a plurality of syntactically correct XML response portions
21 and sending said response portions separately to the client.
22

23 25. (original) The method of claim 20, wherein said calling comprises
24 calling the emitter object a plurality of times and in a defined order for a given
25 response.

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2 26. (original) The method of claim 20, wherein:
3 said calling comprises calling the emitter object a plurality of times for a
4 given response; and
5 said generating comprises generating a plurality of syntactically correct
6 XML response portions and sending said response portions separately to the client.

7
8 27. (original) The method of claim 20 further comprising:
9 buffering a plurality of response portions in a buffer; and
10 sending the plurality of response portions together to the client.

11
12 28. (original) The method of claim 27, wherein said sending of the
13 plurality of response portions comprises sending less than an entirety of a response
14 to the client.

15
16 29. (original) The method of claim 27 further comprising:
17 setting a threshold value on the buffer;
18 determining when the threshold value is satisfied by the response portions
19 that are buffered therein; and
20 responsive to the threshold value being satisfied, sending the buffered
21 response portions to the client.

22
23 31. (original) An Extensible Markup Language (XML) request processor
24 comprising:
25 an XML response generator comprising:

1 a request-receiving mechanism configured to receive a request from a client
2 for an XML document;

3 a response-preparing mechanism coupled with the request-receiving
4 mechanism and configured to prepare only a portion of a response at a time; and

5 a sending mechanism coupled with the response-preparing mechanism and
6 configured to receive response portions from the response-preparing mechanism
7 and to send the response portions to the client, the sent response portions
8 constituting less than an entirety of a response.

9
10 32. (original) The XML request processor of claim 31, wherein the
11 response-preparing mechanism is configured to prepare response portions and the
12 sending mechanism is configured to send the response portions to the client until
13 an entire response is sent to the client.

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15 33. (original) The XML request processor of claim 31, wherein the
16 response that is sent to the client comprises a multistatus response.

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18 34. (original) The XML request processor of claim 31, wherein the
19 response-preparing mechanism is configured to prepare response portions in a
20 defined order.

21
22 35. (original) The XML request processor of claim 31, wherein the
23 response-preparing mechanism includes a data-gathering function that gathers data
24 that is to appear in a client's response, and a formatting function that receives data
25

1 that is gathered by the data-gathering function and formats the data into an
2 appropriate XML syntax.

3
4 36. (original) The XML request processor of claim 31, wherein the
5 sending mechanism includes a buffer for buffering response portions that are
6 received from the response-preparing mechanism, and wherein the buffer has a
7 defined threshold which, when satisfied, enables the sending mechanism to send
8 buffered response portions to the client.

9
10 37. (original) An Extensible Markup Language (XML) request processor
11 comprising:

12 a data-gathering object for gathering data that is to appear in a client
13 response and generating calls in a predefined order that contain the gathered data;
14 and

15 an emitter object configured to receive calls that are generated by the data-
16 gathering object and format the data contained therein into an appropriate XML
17 syntax.

18
19 38. (original) The XML request processor of claim 37, wherein the
20 emitter object is configured to emit only portions of a response that are piecewise
21 sent to the client.

22
23 39. (original) The XML request processor of claim 38 further
24 comprising a buffer that is configured to receive response portions that are emitted
25

1 from the emitter object, buffered response portions being sent to the client when a
2 defined buffer threshold is satisfied.

3
4 40. (original) The XML request processor of claim 37 further
5 comprising a buffer that is configured to receive response portions that are emitted
6 from the emitter object, buffered response portions being accumulated by the
7 buffer and sent to the client when a defined buffer threshold is satisfied, the
8 buffered response portions comprising less than a complete response.

9
10 41. (original) A computer-readable medium having a computer program
11 for responding to an XML request, the program comprising the following steps:

12 receiving a client request;

13 determining an HTTP verb that is contained in the client request;

14 instantiating a request method object that corresponds to the HTTP verb
15 that is contained in the client request;

16 using the request method object to gather information that is to appear in a
17 response to the client's request;

18 making a series of calls to an emitter object that is configured to receive
19 information from the request method object and process the information into a
20 response portion having an appropriate XML syntactic format; and

21 sending the response portion to the client.

22
23 42. (original) The program of claim 41, wherein the making of the series
24 of calls comprises doing so in a defined order.

1 43. (original) The program of claim 41 further comprising accumulating
2 response portions, said sending comprising sending accumulated response portions
3 to the client, the accumulated response portions constituting less than an entirety
4 of a complete client response.

5
6 44. (original) A computer-readable medium having software code that is
7 configured to receive a request from a client and instantiate an object that
8 corresponds to an HTTP verb that is contained in the request, the software code
9 further using the object to build a portion of an XML response to the request.

10
11 45. (original) The software code of claim 44, wherein individual objects
12 that are instantiable by the software code are unique to an HTTP verb with which
13 it corresponds.

14
15 46. (original) The software code of claim 44, wherein the object is
16 configured to make calls to another object, the calls containing information that is
17 to be included in the XML response.

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19 47. (original) The software code of claim 44, wherein the object is
20 configured to make calls to a second object, the calls containing information that is
21 to be included in the XML response, the second object being configured to format
22 the information into an appropriate syntactic form.

23
24 48. (new) The method of claim 1, wherein sending said portion further
25 comprises sending said portion before the XML document is entirely built.

1 49. (new) The method of claim 5, wherein sending the response portion
2 to the client further comprises sending the response portion before the XML
3 document is entirely built.

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5 50. (new) The XML request processor of claim 31, wherein the sending
6 mechanism is further to send a first one of the response portions to the client
7 before the XML document is entirely built.

8
9 51. (new) The XML request processor of claim 37, wherein the emitter
10 object is further configured to include the data formatted in the appropriate XML
11 syntax in the client response to be sent to the client.

12
13 52. (new) The program of claim 41, wherein sending the response
14 portion to the client further comprises sending the response portion without first
15 entirely building an XML document.

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17 53. (new) The software code of claim 44, wherein sending the response
18 portion to the client further comprises sending the response portion without first
19 entirely building an XML document.

20
21 54. (new) The method of claim 20 wherein said creating a request
22 method object further comprises creating a request method object for the
23 WebDAV request method responsive to determination of the WebDAV request
24 method.
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1 55. (new) The program of claim 41 wherein said instantiating a request
2 method object further comprises instantiating a request method object that
3 corresponds to the HTTP verb responsive to the determination of the HTTP verb.
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